Date: Sun, 15 Aug 93 04:30:15 PDT
From: Ham-Homebrew Mailing List and Newsgroup <ham-homebrew@ucsd.edu>
Errors-To: Ham-Homebrew-Errors@UCSD.Edu
Reply-To: Ham-Homebrew@UCSD.Edu
Precedence: Bulk
Subject: Ham-Homebrew Digest V93 #11
To: Ham-Homebrew

Ham-Homebrew Digest Sun, 15 Aug 93 Volume 93 : Issue 11

Today's Topics:

Send Replies or notes for publication to: <Ham-Homebrew@UCSD.Edu>
Send subscription requests to: <Ham-Homebrew-REQUEST@UCSD.Edu>
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Ham-Homebrew Digest are available
(by FTP only) from UCSD.Edu in directory "mailarchives/ham-homebrew".

Date: 14 Aug 93 17:54:25 GMT
From: dog.ee.lbl.gov!overload.lbl.gov!agate!howland.reston.ans.net!noc.near.net!
transfer.stratus.com!jjmhome!pig!die@network.ucsd.edu
Subject: 10 Gig antennas
To: ham-homebrew@ucsd.edu

In article <24gh3t$pnc@apakabar.cc.columbia.edu> mac20@cunixf.cc.columbia.edu
(Michael A Cecere) writes:
>10 Gig parabolic dishes are hard to come across (for a hobbiest's
>money) and constructing one is rather difficult.

That is a surprising statement to me. There are lots of
used satellite dishes around for Ku band which would do just fine
at the lower 10.6 Ghz amateur allocation. Many Ku band satcom
dishes are offset feed types (to allow the dish to be vertical
to reduce snow problems and keep the feed shadowing down to a minimum)
but this should not be a problem for 10 gig ham use. Ku band satellite
dishes are available ranging in size from about 18 inches to more
than 10 feet with most being in the 24 inch to 48 inch range.

These dishes are used for VSAT terminals both 1 way and 2 way (2

way usually requires somewhat larger dish to meet FCC beam specs) and can be found on the roofs of commercial buildings (seems like around here there are more commercial buildings with them than without). Companies go out of business or move and the dishes are often left (I've seen many abandoned car dealerships in the recent severe recession around here with their dishes intact). I would suggest contacting someone who manages commercial real estate or a company that installs and services VSAT systems (most home TVRO dealers don't have any connection with this business) and simply asking if they have some used Ku dishes you could buy. These things show up a ham flea markets too...

And even new Ku band VSAT dishes (just the dish, not the electronics or LNB) are only around a hundred or so dollars complete with Japanese or Tiawanese instructions. These things are not expensive rare items but something very common and installed in the hundreds of thousands.

I might also add that Ku band satcom rf hardware can often be modified to tune the 10.6 ghz ham band with somewhat reduced performance but still much better performance than something homebrewed by someone without good microwave test gear (lots of $$$$$). I have seen VSAT rf front ends at flea markets with 10-15 watt SSPAs at 14 ghz that can be modified to give more than a couple of watts solid state power at 10.6. And many Ku LNB's do not have a whole lot of rf amp selectivity and can be made to work at 10.6 with reduced noise performance and gain.

Date: 15 Aug 93 02:02:14 GMT
From: dziuxsolim.rutgers.edu!lessfilling.rutgers.edu!froncio@uunet.uu.net
Subject: What kits would you like to see?
To: ham-homebrew@ucsd.edu

mcovingt@aisun3.ai.uga.edu (Michael Covington) writes:
> I'm getting ready to do some free-lance designing, and would like to start
> a discussion...
>
> What kind of kits would you like to see offered by companies like Ramsey
> and others in the under-$40-per-kit class?
>
> What kinds of construction projects would you like to see featured in
> magazine articles?

I have a number of them - all of them pertain to autoracing. Ok, maybe they'd cost just a trifle more than $40.00, but, here goes:

- a very small, lightweight data logger capable of logging 30,000 samples from several analog channels and downloading them

to a PC via RS-232 port

- a digital LCD instrument amp/display for any one of several interesting on-board (car,horse, whatever...) sensors

- a timer/logger that detects an emitter's presence and logs the lap-times of a racecar (either on-board or pit-side)

- a simple instrumentation amplifier that's reliable and properly temperature-compensated

- an a-to-d plug-in board for a pc-clone and accompanying scope software

- radio-control equipment for rc-toys

I'd just *love* to be able to buy these things for $40.00!

Cheers,

Andy
--
Andy Froncioni
froncio@caip.rutgers.edu

" Until the lions have their own historians,
tales of hunting always glorify the hunter..." Zulu proverb

Date: 14 Aug 1993 23:52:19 GMT
From: usc!math.ohio-state.edu!darwin.sura.net!news-feed-2.peachnet.edu!
hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
To: ham-homebrew@ucsd.edu

References <93226.175105LEEK@QUCDN.QueensU.CA>,
<1993Aug14.182447.13022@doug.cae.wisc.edu>, <24jtk2$1hc@hobbes.cc.uga.edu>.
Subject : What kits would you like to see?

I'm getting ready to do some free-lance designing, and would like to start
a discussion...

What kind of kits would you like to see offered by companies like Ramsey
and others in the under-$40-per-kit class?

What kinds of construction projects would you like to see featured in

magazine articles?

Suggestions, comments, free-for-alls invited...
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:- Michael A. Covington, Associate Research Scientist   :   *****
:- Artificial Intelligence Programs   mcovingt@ai.uga.edu : *********
:- The University of Georgia   phone 706 542-0358 :   * * *
:- Athens, Georgia 30602-7415 U.S.A.   amateur radio N4TMI : ** *** ** <><

Date: 14 Aug 1993 23:50:42 GMT
From: usc!math.ohio-state.edu!darwin.sura.net!news-feed-2.peachnet.edu!
hobbes.cc.uga.edu!aisun3.ai.uga.edu!mcovingt@network.ucsd.edu
To: ham-homebrew@ucsd.edu

References <93226.175105LEEK@QUCDN.QueensU.CA>,
<1993Aug14.182447.13022@doug.cae.wisc.edu>, <24jtk2$1hc@hobbes.cc.uga.edu>.
Subject : Ramsey modification to FM-10 stereo transmitter

Ramsey has released a modification kit for the FM-10 which puts in a
38-kHz crystal in place of the original RC timing network for the 38-kHz
oscillator.

They say that with recent production runs of the BA1404, the RC network
no longer produces the correct _phasing_ of the 38-kHz signal, even though
the frequency is correct (when properly adjusted).

The symptom is poor stereo separation. The kit cures it.

They gave me my mod. kit free, but I don't know if that is the general
policy.
--
:- Michael A. Covington, Associate Research Scientist   :   *****
:- Artificial Intelligence Programs   mcovingt@ai.uga.edu : *********
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:- Athens, Georgia 30602-7415 U.S.A.   amateur radio N4TMI : ** *** ** <><

End of Ham-Homebrew Digest V93 #11
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